

Arizona Standards and Future Problem Solving



Key AZ Standards: Language Arts (grades 4 - 5)

Standard 1: Reading

R-E2: Use reading strategies such as making inferences and predictions, summarizing, paraphrasing, differentiating fact from opinion, drawing conclusions . . . to comprehend written selections.

R-E3: Analyze selections of . . . nonfiction . . . (PO 4) making inferences about the events, settings . . . of the selection.



Standard 2: Writing

W-E1: Use correct spelling, punctuation, capitalization, grammar and usage, along with varied sentence structure and paragraph organization, to complete effectively a variety of writing tasks.

W-E4: Write an expository essay that contains effective introductory and summary statements and fully develops the ideas with details, facts, examples, and descriptions.

W-E5: Write a report that conveys a point of view and develops a topic with appropriate facts, details, examples and descriptions from a variety of cited sources.

W-E6: Write formal communications, such as personal or business letters, messages, directions, and applications in an appropriate format and for a specific audience and purpose.

W-E8: Demonstrate research skills using reference materials such as a dictionary, encyclopedia, and thesaurus to complete effectively a variety of writing tasks.



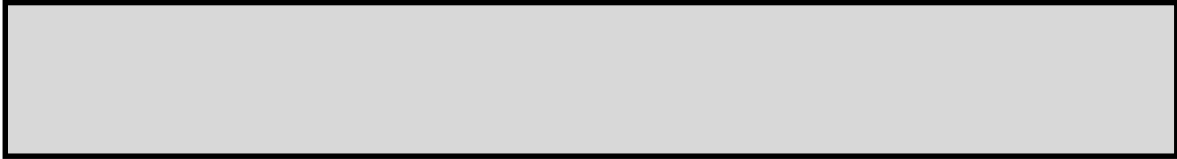
Key AZ Standards: Math (grades 4 - 5)

Standard 2: Data Analysis and Probability

Students use data collection and analysis, statistics, and probability to make valid inferences, decisions and arguments and to solve a variety of real-world problems.

2M-E1: Construct, read, analyze and interpret tables, charts, graphs, and data plots.

2M-E2 Make valid inferences, predictions, and arguments based on statistical analysis.



Key AZ Standards: Science (grades 4 - 5)

Standard 1: Science as Inquiry

Students understand and use the processes of scientific investigation and scientific ways of knowing. They are able to design, conduct, describe, and evaluate these investigations. They are able to understand and apply concepts that unify scientific disciplines.

1SC-E1 Analyze scientific reports from magazines, television or other media.

1SC-E4 Identify and refine questions from previous investigations.

Standard 3: Personal and Social Perspectives in Science and Technology

3SC-E1 Recognize how scientific knowledge, thinking processes, and skills are used in a variety of careers.

3SC-E2 Develop and use a systematic approach to analyze the risks associated with natural and biological hazards.

3SC-E3 Identify a specific need and propose a solution or product that addresses this need, taking into consideration various factors.

3SC-E4 Implement a proposed solution or design and evaluate its merit.



Additional standards from science as well as from social studies will be addressed through the content of selected issues.